

45. (New claim) A method for preparing a library of compounds comprising:  
contacting a purine or pyrimidine heterocyclic scaffold molecule having a plurality of functionalizable atoms with a mixture of at least six different chemical substituents in one reaction vessel to append each of said chemical substituents to said scaffold either directly or via a tether moiety covalently attached to one of said functionalizable atoms.

46. (New claim) The method of claim 45 wherein said compounds of said library are within 20 mole percent of equimolarity.

47. (New claim) The method of claim 45 wherein said purine or pyrimidine is substituted or unsubstituted adenine, guanine, cytosine, uridine, thymine, xanthine or hypoxanthine.

48. (New claim) The method of claim 45 wherein said scaffold is contacted with a mixture of at least ten different chemical substituents.

49. (New claim) The method of claim 45 wherein said scaffold is contacted with a mixture of at least fifteen different chemical substituents.

50. (New claim) The method of claim 45 wherein said method is performed in solution phase.

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**REMARKS**

Claims 31-50 are pending in the present application. Applicant respectfully submits that the claims are in condition for allowance. An early notice of the same is earnestly solicited. Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment.

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The attached page is captioned "Version with markings to show changes made."

Respectfully submitted,

  
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**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**In the Claims:**

Claims 1-30 have been cancelled.

New claims 31-50 have been added.